

Derek Ni

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EDUCATION

Cornell University

B.S. Computer Science, GPA: 4.04

Ithaca, NY

Expected May 2023

Courses: Algorithms, Functional Programming, Objected Oriented Programming, Database Systems, Artificial Intelligence, Discrete Structures, Backend Development, Probability & Statistics

Thomas Jefferson High School for Science and Technology

Advanced Studies Diploma

Alexandria, VA

Graduated June 2019

WORK EXPERIENCE

Fizz | YC/KP Startup

Software Engineer Intern

New York, NY

Jan 2022 – May 2022

- Developed a backend Firestore database to handle credit card and repayment logic
- Incorporated backend changes and Firebase event tracking into the mobile app using Flutter

Amazon

SDE Intern

Seattle, WA

May 2021 – Aug 2021

- Redesigned an API for getting messages with the Alexa Messaging Service
- Implemented encrypted pagination tokens for paging through messages with the API

Tesla

Mobile Engineer Intern

Palo Alto, CA

Feb 2021 – May 2021

- Developed and improved components in the Tesla app using React Native and TypeScript
- Created simulator to test code endpoints using Flask, Python, and WebSockets

PERSONAL PROJECTS

[Ascii Stream](#) | IvyHacks 2nd Overall | TypeScript, WebRTC

- Video call web app that converts video to ASCII art to save bandwidth
- Implemented with WebRTC for real time text and audio communication between users
- Deployed as Next.js web app to Vercel, with Python script to convert video frames to ASCII art

[Minto](#) | TypeScript

- Productivity Chrome extension to incentivize productivity by the minute through rewards
- Wrote scripts to track minutes worked in sessions, which users can spend on rewards they create

[TaskTime](#) | Swift

- Productivity iOS app to motivate users to complete to-dos and keep healthy habits
- Created gamified to-do list to increase user productivity, through points and rewards

ORGANIZATIONS

Cornell ACSU

Academic Officer

Ithaca, NY

October 2019 – Present

- Organized academic events for 400+ students interested in computer science
- Led collaboration with Cornell AppDev to increase outreach with an iOS workshop

SKILLS

Languages: Python, TypeScript, JavaScript, Java, C#, Swift, OCaml, HTML, and SQL

Tools: ReactJS, Git, Visual Studio Code, Eclipse, XCode, and Jupyter Notebook